

ANALYTICAL REPORT

Job Number: 580-5815-1

Job Description: Haughten Rd Orchard

For:
Washington State Dept of Ecology
15 W Yakima Ave
Suite 200
Yakima, WA 98902

Attention: Brian Deeken

Katie Downie

Project Manager II kdownie@stl-inc.com

05/16/2007

Project Manager: Katie Downie

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I. Receipt

One jar for sample "Storage" was received broken. The samples was fully contained within the ziploc bag, and there was sufficient sample to run the requested tests.

The samples were received past the 14 day extraction hold time for the requested tests, and the results have been flagged "H".

All other samples were received in good condition within temperature requirements.

II. GC/MS Semi VOA

Method 8141A:

Surrogate recovery for sample 580-5815-2 was outside control limits. This sample shows evidence of matrix interference; therefore, re-extraction and/or re-analysis was not performed.

Matrix spikes could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control standard (LCS) met acceptance criteria.

Method 8151A:

Surrogate recovery for sample 580-5815-2 and the associated MSD analysis were outside control limits. This sample shows evidence of matrix interference; therefore, re-extraction and/or re-analysis was not performed.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch _18415____ were outside control limits, due to high levels of nontarget analytes. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

III. GC Semi VOA

Method 8081A:

Due to the high concentration of target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 18425 could not be evaluated. The associated laboratory control standard (LCS) met acceptance criteria.

Method NWTPH-Dx:

#2 Diesel was detected in the MB at a level above the method detection limit and but below the reporting limit. No action was taken as the associated samples were diluted 1:20 and 1:50 rendering minimal hit in MB negligable.

Surrogate recovery for samples 580-5815-1 and 580-5815-2 were outside control limits. These samples show evidence of matrix interference; therefore, re-extraction and/or re-analysis were not performed.

No other analytical or quality issues were noted.

IV. General Chemistry

No analytical or quality issues were noted.

V. Organic Prep

No analytical or quality issues were noted.

METHOD SUMMARY

Client: Washington State Dept of Ecology Job Number: 580-5815-1

| Description | | Lab Location | Method Preparation Method |
|-------------|---|--------------------|-------------------------------|
| Matrix: | Solid | | |
| Organopho | osphorous Compounds by GC-MS Ultrasonic Extraction | STL SEA STL SEA | SW846 8141A SW846 3550B |
| Chlorinated | d Herbicides by GC-MS Chlorinated Herbicides by GC - Solids Prep | STL SEA STL SEA | SW846 8151A SW846 8151A |
| Organochl | orine Pesticides by Gas Chromatography Ultrasonic Extraction (Low Level) | STL SEA STL SEA | SW846 8081A SW846 3550B |
| Semi-Vola | tile Petroleum Products by NWTPH-Dx Ultrasonic Extraction | STL SEA STL SEA | NWTPH NWTPH-Dx SW846 3550B |
| Percent Mo | oisture | STL SEA | EPA PercentMoisture |

LAB REFERENCES:

STL SEA = STL Seattle

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

EPA - US Environmental Protection Agency

SAMPLE SUMMARY

Client: Washington State Dept of Ecology Job Number: 580-5815-1

| | | | Date/Time | Date/Time |
|---------------|------------------|---------------|-----------------|-----------------|
| Lab Sample ID | Client Sample ID | Client Matrix | Sampled | Received |
| 580-5815-1 | Tank | Solid | 04/16/2007 1418 | 05/07/2007 1015 |
| 580-5815-2 | Storage | Solid | 04/16/2007 1427 | 05/07/2007 1015 |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Storage

 Lab Sample ID:
 580-5815-2
 Date Sampled:
 04/16/2007
 1427

 Client Matrix:
 Solid
 % Moisture:
 8.4
 Date Received:
 05/07/2007
 1015

8141A Organophosphorous Compounds by GC-MS

Method: 8141A Analysis Batch: 580-18521 Instrument ID: SEA008
Preparation: 3550B Prep Batch: 580-18413 Lab File ID: L23043DD.D

Dilution: 500 Initial Weight/Volume: 15.3930 g
Date Analyzed: 05/09/2007 1447 Final Weight/Volume: 10 mL

Date Prepared: 05/08/2007 0835 Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|------------------------------|--------------------|----------------|-----------|------------|----------|
| Dichlorvos | | ND | Н | 18000 | 53000 |
| Mevinphos | | ND | Н | 3700 | 18000 |
| Ethoprop | | ND | Н | 5100 | 18000 |
| Naled | | ND | Н | 12000 | 37000 |
| Sulfotepp | | ND | Н | 4300 | 18000 |
| Monochrotophos | | ND | Н | 12000 | 37000 |
| Phorate | | ND | Н | 5900 | 18000 |
| Dimethoate | | ND | Н | 7700 | 23000 |
| Demeton-O + Demeton-S | | ND | Н | 2400 | 18000 |
| Diazinon | | ND | Н | 5300 | 18000 |
| Disulfoton | | ND | Н | 5100 | 18000 |
| Parathion methyl | | ND | Н | 7200 | 22000 |
| Ronnel | | ND | Н | 2900 | 18000 |
| Chlorpyrifos | | 790000 | Н | 12000 | 37000 |
| Malathion | | ND | Н | 4000 | 18000 |
| Fenthion | | ND | Н | 4500 | 18000 |
| Parathion | | ND | Н | 4500 | 18000 |
| Trichloronate | | ND | Н | 5300 | 18000 |
| Tetrachlorvinphos (Z-isomer) | | ND | Н | 9000 | 27000 |
| Merphos | | ND | Н | 5100 | 18000 |
| Tokuthion | | ND | Н | 4000 | 18000 |
| Fensulfothion | | ND | Н | 14000 | 43000 |
| Bolstar | | ND | Н | 3700 | 18000 |
| EPN | | ND | Н | 9000 | 27000 |
| Azinphos-methyl | | ND | Н | 6900 | 21000 |
| Coumaphos | | ND | Н | 4000 | 18000 |
| Surrogate | | %Rec | | Acceptance | e Limits |
| Tributyl phosphate | | 0 | X | 38 - 129 | |
| Triphenylphosphate | | 0 | Χ | 45 - 125 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Storage

Lab Sample ID: 580-5815-2 Date Sampled: 04/16/2007 1427 Client Matrix: Date Received: Solid % Moisture: 8.4 05/07/2007 1015

8151A Chlorinated Herbicides by GC-MS

Analysis Batch: 580-18469 SEA008 Method: 8151A Instrument ID: Preparation: 8151A Prep Batch: 580-18415 Lab File ID: L23049.D

Dilution: 1.0

Initial Weight/Volume: 15.9194 g Date Analyzed: Final Weight/Volume: 05/08/2007 2034 10 mL

Date Prepared: 05/08/2007 0841 Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|-------------------------------|--------------------|----------------|-----------|--------|-------------|
| Dalapon | | ND | Н | 4.7 | 17 |
| 4-Nitrophenol | | ND | Н | 1.2 | 6.8 |
| Dicamba | | ND | Н | 0.94 | 6.8 |
| MCPP | | ND | Н | 1.0 | 6.8 |
| MCPA | | ND | Н | 0.88 | 6.8 |
| Dichlorprop | | ND | Н | 1.5 | 6.8 |
| 2,4-D | | ND | Н | 0.80 | 6.8 |
| Pentachlorophenol | | ND | Н | 1.9 | 6.8 |
| Silvex (2,4,5-TP) | | ND | Н | 2.1 | 6.8 |
| 2,4,5-T | | ND | Н | 0.57 | 6.8 |
| Dinoseb | | ND | Н | 2.3 | 17 |
| 2,4-DB | | ND | Н | 1.6 | 6.8 |
| Surrogate | | %Rec | | Accept | ance Limits |
| 2,4-Dichlorophenylacetic acid | | 132 | X | 51 - 1 | 129 |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Storage

 Lab Sample ID:
 580-5815-2
 Date Sampled:
 04/16/2007
 1427

 Client Matrix:
 Solid
 % Moisture:
 8.4
 Date Received:
 05/07/2007
 1015

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 580-18625 Instrument ID: SEA035
Preparation: 3550B Prep Batch: 580-18425 Lab File ID: ECD25378.D

Dilution: 500 Initial Weight/Volume: 10.3077 g
Date Analyzed: 05/14/2007 1338 Final Weight/Volume: 10 mL

Date Analyzed: 05/14/2007 1338 Final Weight/Volume: Date Prepared: 05/08/2007 1036 Injection Volume:

Column ID: PRIMARY

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|------------------------|--------------------|----------------|-----------|------------|----------|
| Aldrin | | ND | Н | 57 | 530 |
| alpha-BHC | | ND | Н | 58 | 530 |
| beta-BHC | | 95 | JΗ | 69 | 530 |
| delta-BHC | | ND | Н | 64 | 530 |
| gamma-BHC (Lindane) | | ND | Н | 62 | 530 |
| 4,4'-DDD | | ND | Н | 140 | 1100 |
| 4,4'-DDE | | ND | Н | 120 | 1100 |
| 4,4'-DDT | | ND | Н | 140 | 1100 |
| Dieldrin | | 220 | JΗ | 120 | 1100 |
| Endosulfan I | | 50000 | Н | 63 | 530 |
| Endosulfan II | | 26000 | Н | 140 | 1100 |
| Endosulfan sulfate | | 250 | JΗ | 180 | 1100 |
| Endrin | | ND | Н | 220 | 1100 |
| Endrin aldehyde | | ND | Н | 130 | 1100 |
| Heptachlor | | ND | Н | 71 | 530 |
| Heptachlor epoxide | | ND | Н | 67 | 530 |
| Methoxychlor | | 1100 | JΗ | 710 | 5300 |
| Endrin ketone | | ND | Н | 130 | 1100 |
| Toxaphene | | ND | Н | 5300 | 53000 |
| alpha-Chlordane | | ND | Н | 64 | 530 |
| gamma-Chlordane | | ND | Н | 64 | 530 |
| Surrogate | | %Rec | | Acceptance | e Limits |
| Tetrachloro-m-xylene | | 125 | ΧD | 49 - 123 | |
| DCB Decachlorobiphenyl | | 0 | X D | 40 - 158 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Tank

 Lab Sample ID:
 580-5815-1
 Date Sampled:
 04/16/2007 1418

 Client Matrix:
 Solid
 % Moisture:
 7.1
 Date Received:
 05/07/2007 1015

NWTPH-Dx Semi-Volatile Petroleum Products by NWTPH-Dx

Method: NWTPH-Dx Analysis Batch: 580-18558 Instrument ID: SEA013
Preparation: 3550B Prep Batch: 580-18471 Lab File ID: FA29362.D

Dilution: 1.0 Initial Weight/Volume: 10.1838 g

Date Analyzed: 05/10/2007 1841 Final Weight/Volume: 10 mL

Date Prepared: 05/09/2007 1211 Injection Volume: Column ID: PRIMARY

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Motor Oil (>C24-C36) 1000 H 6.3 53

Surrogate %Rec Acceptance Limits

o-Terphenyl 0 X 50 - 150

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Tank

 Lab Sample ID:
 580-5815-1
 Date Sampled:
 04/16/2007 1418

 Client Matrix:
 Solid
 % Moisture:
 7.1
 Date Received:
 05/07/2007 1015

NWTPH-Dx Semi-Volatile Petroleum Products by NWTPH-Dx

Method: NWTPH-Dx Analysis Batch: 580-18558 Instrument ID: SEA013
Preparation: 3550B Prep Batch: 580-18471 Lab File ID: FA29378.D

Dilution: 20 Initial Weight/Volume: 10.1838 g

Date Analyzed: 05/11/2007 1324 Final Weight/Volume: 10 mL Date Prepared: 05/09/2007 1211 Injection Volume:

Column ID: PRIMARY

 Analyte
 DryWt Corrected: Y
 Result (mg/Kg)
 Qualifier
 MDL
 RL

 #2 Diesel (C10-C24)
 40000
 H B
 130
 530

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Storage

 Lab Sample ID:
 580-5815-2
 Date Sampled:
 04/16/2007
 1427

 Client Matrix:
 Solid
 % Moisture:
 8.4
 Date Received:
 05/07/2007
 1015

NWTPH-Dx Semi-Volatile Petroleum Products by NWTPH-Dx

Method: NWTPH-Dx Analysis Batch: 580-18558 Instrument ID: SEA013
Preparation: 3550B Prep Batch: 580-18471 Lab File ID: FA29363.D

Dilution: 1.0 Initial Weight/Volume: 10.4456 g

Date Analyzed: 05/10/2007 1902 Final Weight/Volume: 10 mL

Date Prepared: 05/09/2007 1211 Injection Volume: Column ID: PRIMARY

Surrogate %Rec Acceptance Limits

o-Terphenyl 0 X 50 - 150

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Client Sample ID: Storage

Lab Sample ID: 580-5815-2 Date Sampled: 04/16/2007 1427 Client Matrix: Solid % Moisture: Date Received: 8.4 05/07/2007 1015

NWTPH-Dx Semi-Volatile Petroleum Products by NWTPH-Dx

Method: NWTPH-Dx Analysis Batch: 580-18558 Instrument ID: **SEA013** FA29379.D Preparation: 3550B Prep Batch: 580-18471 Lab File ID:

Dilution: 50 Initial Weight/Volume: 10.4456 g

05/11/2007 1349 Date Analyzed: Final Weight/Volume: 10 mL

Date Prepared: 05/09/2007 1211 Injection Volume: Column ID:

PRIMARY

DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RLAnalyte 79000 310 Motor Oil (>C24-C36) 2600 #2 Diesel (C10-C24) ΗВ 24000 310 1300 Client: Washington State Dept of Ecology Job Number: 580-5815-1

General Chemistry

Client Sample ID: Tank

580-5815-1 Lab Sample ID: Date Sampled: 04/16/2007 1418 Client Matrix: Solid Date Received: 05/07/2007 1015

Analyte Result Qual Units RLRLDil Method Percent Solids 93 % 0.10 0.10 1.0 PercentMoisture

> Anly Batch: 580-18556 Date Analyzed 05/11/2007 1425

Client Sample ID: Storage

Lab Sample ID: 580-5815-2 Date Sampled: 04/16/2007 1427 Client Matrix:

Solid Date Received: 05/07/2007 1015

Analyte Units RLRLDil Method Result Qual Percent Solids 92 % 0.10 0.10 1.0 PercentMoisture

> Anly Batch: 580-18392 Date Analyzed 05/07/2007 0903

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Method Blank - Batch: 580-18413

Method: 8141A Preparation: 3550B

Lab Sample ID: MB 580-18413/1-AA

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 05/08/2007 1304

Date Prepared: 05/08/2007 0835

Analysis Batch: 580-18521 Prep Batch: 580-18413

Units: ug/Kg

Instrument ID: SEA008 Lab File ID: L23037.D Initial Weight/Volume: 15 g Final Weight/Volume: 10 mL

Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-------------------|-----|
| Dichlorvos | ND | | 34 | 100 |
| Mevinphos | ND | | 7.0 | 33 |
| Ethoprop | ND | | 9.5 | 33 |
| Naled | ND | | 24 | 71 |
| Sulfotepp | ND | | 8.0 | 33 |
| Monochrotophos | ND | | 23 | 69 |
| Phorate | ND | | 11 | 33 |
| Dimethoate | ND | | 15 | 44 |
| Demeton-O + Demeton-S | ND | | 4.5 | 33 |
| Diazinon | ND | | 10 | 33 |
| Disulfoton | ND | | 9.5 | 33 |
| Parathion methyl | ND | | 14 | 41 |
| Ronnel | ND | | 5.5 | 33 |
| Chlorpyrifos | ND | | 23 | 69 |
| Malathion | ND | | 7.5 | 33 |
| Fenthion | ND | | 8.5 | 33 |
| Parathion | ND | | 8.5 | 33 |
| Trichloronate | ND | | 10 | 33 |
| Tetrachlorvinphos (Z-isomer) | ND | | 17 | 51 |
| Merphos | ND | | 9.5 | 33 |
| Tokuthion | ND | | 7.5 | 33 |
| Fensulfothion | ND | | 27 | 80 |
| Bolstar | ND | | 7.0 | 33 |
| EPN | ND | | 17 | 51 |
| Azinphos-methyl | ND | | 13 | 39 |
| Coumaphos | ND | | 7.5 | 33 |
| Surrogate | % Rec | | Acceptance Limits | |
| Tributyl phosphate | 80 | | 38 - 129 | |
| Triphenylphosphate | 97 | | 45 - 125 | |

Job Number: 580-5815-1 Client: Washington State Dept of Ecology

Lab Control Spike/ Method: 8141A Lab Control Spike Duplicate Recovery Report - Batch: 580-18413 Preparation: 3550B

LCS Lab Sample ID: LCS 580-18413/2-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/08/2007 1326

Date Prepared: 05/08/2007 0835

Prep Batch: 580-18413 Units: ug/Kg

Analysis Batch: 580-18521 Instrument ID: SEA008 Lab File ID: L23038.D

Initial Weight/Volume: 15 g 10 mL Final Weight/Volume:

Injection Volume:

LCSD Lab Sample ID: LCSD 580-18413/3-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/08/2007 1348 Date Prepared: 05/08/2007 0835 Analysis Batch: 580-18521 Prep Batch: 580-18413

Units: ug/Kg

SEA008 Instrument ID: Lab File ID: L23039.D Initial Weight/Volume: 15 g

Final Weight/Volume: 10 mL

Injection Volume:

| | <u>9</u> | <u> 6 Rec.</u> | | | | | |
|------------------------------|----------|----------------|----------|-----|-----------|--------------|-----------|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Dichlorvos | 115 | 117 | 50 - 150 | 1 | 50 | | |
| Mevinphos | 117 | 116 | 50 - 150 | 1 | 50 | | |
| Ethoprop | 91 | 103 | 50 - 150 | 12 | 50 | | |
| Phorate | 102 | 102 | 50 - 150 | 0 | 50 | | |
| Diazinon | 102 | 106 | 58 - 113 | 4 | 28 | | |
| Disulfoton | 98 | 108 | 50 - 150 | 9 | 50 | | |
| Parathion methyl | 101 | 101 | 50 - 150 | 0 | 50 | | |
| Ronnel | 88 | 94 | 50 - 150 | 7 | 50 | | |
| Chlorpyrifos | 100 | 111 | 55 - 115 | 10 | 19 | | |
| Fenthion | 87 | 86 | 50 - 150 | 2 | 50 | | |
| Trichloronate | 94 | 103 | 50 - 150 | 9 | 50 | | |
| Tetrachlorvinphos (Z-isomer) | 96 | 100 | 50 - 150 | 4 | 50 | | |
| Tokuthion | 98 | 108 | 50 - 150 | 10 | 50 | | |
| Bolstar | 99 | 101 | 50 - 150 | 2 | 50 | | |
| Azinphos-methyl | 110 | 118 | 38 - 133 | 6 | 31 | | |
| Coumaphos | 109 | 108 | 50 - 150 | 0 | 50 | | |
| Surrogate | L | CS % Rec | LCSD % | Rec | Accep | tance Limits | |
| Tributyl phosphate | 8 | 9 | 93 | | 3 | 8 - 129 | |
| Triphenylphosphate | 8 | 9 | 86 | | 4 | 5 - 125 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Matrix Spike/ Method: 8141A
Matrix Spike Duplicate Recovery Report - Batch: 580-18413 Preparation: 3550B

MS Lab Sample ID: 580-5815-2 Analysis Batch: 580-18521 Instrument ID: SEA008 Client Matrix: Solid Prep Batch: 580-18413 Lab File ID: L23040.D

Dilution: 1.0 Prep Batch: 580-18413 Lab File ID: L23040.D

Date Analyzed: 05/08/2007 1626 Final Weight/Volume: 10 mL

Date Prepared: 05/08/2007 0835 Injection Volume:

MSD Lab Sample ID: 580-5815-2 Analysis Batch: 580-18521 Instrument ID: SEA008
Client Matrix: Solid Prep Batch: 580-18413 Lab File ID: 1 23041 D

Client Matrix: Solid Prep Batch: 580-18413 Lab File ID: L23041.D Dilution: 1.0 Initial Weight/Volume: 15.2

Dilution: 1.0 Initial Weight/Volume: 15.2164 g
Date Analyzed: 05/08/2007 1649 Final Weight/Volume: 10 mL

Date Prepared: 05/08/2007 0835 Injection Volume:

| | <u>% F</u> | <u>Rec.</u> | | | | | | |
|------------------------------|------------|-------------|--------|-------|-------|-----------|----------------|----------|
| Analyte | MS | MSD | Limit | | RPD | RPD Limit | MS Qual | MSD Qual |
| Dichlorvos | 0 | 237 | 50 - | 150 | NC | 50 | F | F |
| Mevinphos | 0 | 257 | 50 - 1 | 150 | NC | 50 | F | F |
| Ethoprop | 0 | 62 | 50 - 1 | 150 | NC | 50 | F | |
| Phorate | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Diazinon | 0 | 0 | 58 - 1 | 113 | NC | 28 | F | F |
| Disulfoton | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Parathion methyl | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Ronnel | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Chlorpyrifos | -33100 | -31500 | 55 - 1 | 115 | NC | 19 | 4 | 4 |
| Fenthion | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Trichloronate | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Tetrachlorvinphos (Z-isomer) | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Tokuthion | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Bolstar | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Azinphos-methyl | 0 | 0 | 38 - 1 | 133 | NC | 31 | F | F |
| Coumaphos | 0 | 0 | 50 - 1 | 150 | NC | 50 | F | F |
| Surrogate | | MS % Rec | | MSD % | % Rec | Ac | ceptance Limit | s |
| Tributyl phosphate | | 0 | Χ | 0 | Х | | 38 - 129 | |
| Triphenylphosphate | | 0 | Χ | 0 | X | | 45 - 125 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Method Blank - Batch: 580-18415

Method: 8151A Preparation: 8151A

Lab Sample ID: MB 580-18415/1-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/08/2007 1841

Date Prepared: 05/08/2007 0841

Analysis Batch: 580-18469 Prep Batch: 580-18415

Units: ug/Kg

Instrument ID: SEA008 Lab File ID: L23044.D Initial Weight/Volume: 15 g Final Weight/Volume: 10 mL

Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|-------------------------------|--------|------|-------------------|-----|
| Dalapon | ND | | 4.6 | 17 |
| 4-Nitrophenol | ND | | 1.1 | 6.7 |
| Dicamba | ND | | 0.91 | 6.7 |
| MCPP | ND | | 1.0 | 6.7 |
| MCPA | ND | | 0.86 | 6.7 |
| Dichlorprop | ND | | 1.4 | 6.7 |
| 2,4-D | ND | | 0.78 | 6.7 |
| Pentachlorophenol | ND | | 1.8 | 6.7 |
| Silvex (2,4,5-TP) | ND | | 2.0 | 6.7 |
| 2,4,5-T | ND | | 0.56 | 6.7 |
| Dinoseb | ND | | 2.3 | 17 |
| 2,4-DB | ND | | 1.6 | 6.7 |
| Surrogate | % Rec | | Acceptance Limits | |
| 2,4-Dichlorophenylacetic acid | 117 | | 51 - 129 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Lab Control Spike/ Method: 8151A
Lab Control Spike Duplicate Recovery Report - Batch: 580-18415 Preparation: 8151A

LCS Lab Sample ID: LCS 580-18415/2-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/08/2007 1904 Date Prepared: 05/08/2007 0841 Analysis Batch: 580-18469 Prep Batch: 580-18415

Units: ug/Kg

Instrument ID: SEA008
Lab File ID: L23045.D

Initial Weight/Volume: 15 g Final Weight/Volume: 10 mL

Injection Volume:

LCSD Lab Sample ID: LCSD 580-18415/3-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/08/2007 1926 Date Prepared: 05/08/2007 0841 Analysis Batch: 580-18469 Prep Batch: 580-18415

Units: ug/Kg

a. _

Instrument ID: SEA008
Lab File ID: L23046.D
Initial Weight/Volume: 15 g
Final Weight/Volume: 10 mL

Injection Volume:

| | <u>9</u> | <u>% Rec.</u> | | | | | |
|-------------------------------|----------|---------------|----------|-----|-----------|--------------|-----------|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Dalapon | 58 | 57 | 16 - 74 | 2 | 30 | | |
| 4-Nitrophenol | 73 | 71 | 50 - 150 | 3 | 30 | | |
| Dicamba | 93 | 96 | 48 - 123 | 3 | 30 | | |
| MCPP | 76 | 90 | 53 - 154 | 17 | 30 | | |
| MCPA | 113 | 109 | 50 - 150 | 3 | 30 | | |
| Dichlorprop | 123 | 118 | 75 - 140 | 4 | 30 | | |
| 2,4-D | 116 | 112 | 46 - 136 | 3 | 30 | | |
| Pentachlorophenol | 112 | 106 | 50 - 150 | 5 | 30 | | |
| Silvex (2,4,5-TP) | 116 | 109 | 52 - 137 | 6 | 30 | | |
| 2,4,5-T | 104 | 99 | 45 - 135 | 4 | 30 | | |
| Dinoseb | 91 | 82 | 18 - 157 | 10 | 30 | | |
| 2,4-DB | 87 | 84 | 50 - 155 | 3 | 30 | | |
| Surrogate | L | .CS % Rec | LCSD % | Rec | Accep | tance Limits | i |
| 2,4-Dichlorophenylacetic acid | 8 | 8 | 85 | | 5 | 1 - 129 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Matrix Spike/ Method: 8151A
Matrix Spike Duplicate Recovery Report - Batch: 580-18415 Preparation: 8151A

MS Lab Sample ID: 580-5815-2 Analysis Batch: 580-18469 Instrument ID: SEA008 Client Matrix: Solid Prep Batch: 580-18415 Lab File ID: L23047.D

Dilution: 1.0

Date Analyzed: 05/08/2007 1949 Date Prepared: 05/08/2007 0841 ep Batch: 580-18415 Lab File ID: L23047.D Initial Weight/Volume: 15.4587 g Final Weight/Volume: 10 mL

Injection Volume:

MSD Lab Sample ID: 580-5815-2 Analysis Batch: 580-18469 Instrument ID: SEA008 Client Matrix: Solid Prep Batch: 580-18415 Lab File ID: L23048.D

Dilution: 1.0

Date Analyzed: 05/08/2007 2011 Date Prepared: 05/08/2007 0841 Lab File ID: L23048.D Initial Weight/Volume: 15.8018 g

Final Weight/Volume: 10 mL

Injection Volume:

| | <u>%</u> | Rec. | | | | | |
|-------------------------------|----------|----------|------------------|-------|-----------|-------------|----------|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Dalapon | 36 | 35 | 16 - 74 | 6 | 30 | | |
| 4-Nitrophenol | 136 | 129 | 50 - 150 | 8 | 30 | | |
| Dicamba | 156 | 173 | 48 - 123 | 8 | 30 | F | F |
| MCPP | 91 | 110 | 53 - 154 | 16 | 30 | | |
| MCPA | 104 | 120 | 50 - 150 | 11 | 30 | | |
| Dichlorprop | 91 | 114 | 75 - 140 | 20 | 30 | | |
| 2,4-D | 69 | 126 | 46 - 136 | 57 | 30 | | F |
| Pentachlorophenol | 106 | 145 | 50 - 150 | 29 | 30 | | |
| Silvex (2,4,5-TP) | 92 | 151 | 52 - 137 | 47 | 30 | | F |
| 2,4,5-T | 107 | 182 | 45 - 135 | 50 | 30 | | F |
| Dinoseb | 0 | 33 | 18 - 157 | NC | 30 | F | |
| 2,4-DB | 272 | 324 | 50 - 155 | 15 | 30 | F | F |
| Surrogate | | MS % Rec | MSD ^o | % Rec | Acce | ptance Limi | ts |
| 2,4-Dichlorophenylacetic acid | | 129 | 166 | Х | 5 | 1 - 129 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Method Blank - Batch: 580-18425

Method: 8081A Preparation: 3550B

Lab Sample ID: MB 580-18425/1-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/10/2007 2035

Date Prepared: 05/08/2007 1036

Analysis Batch: 580-18625 Prep Batch: 580-18425

Units: ug/Kg

Instrument ID: SEA035 Lab File ID: ECD25334.D Initial Weight/Volume: 10 g

Final Weight/Volume: 10 mL Injection Volume:

Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|------------------------|--------|------|-------------------|-----|
| Aldrin | ND | | 0.11 | 1.0 |
| alpha-BHC | ND | | 0.11 | 1.0 |
| beta-BHC | ND | | 0.13 | 1.0 |
| delta-BHC | ND | | 0.12 | 1.0 |
| gamma-BHC (Lindane) | ND | | 0.12 | 1.0 |
| 4,4'-DDD | ND | | 0.27 | 2.0 |
| 4,4'-DDE | ND | | 0.23 | 2.0 |
| 4,4'-DDT | ND | | 0.27 | 2.0 |
| Dieldrin | ND | | 0.22 | 2.0 |
| Endosulfan I | ND | | 0.12 | 1.0 |
| Endosulfan II | ND | | 0.27 | 2.0 |
| Endosulfan sulfate | ND | | 0.34 | 2.0 |
| Endrin | ND | | 0.42 | 2.0 |
| Endrin aldehyde | ND | | 0.25 | 2.0 |
| Heptachlor | ND | | 0.14 | 1.0 |
| Heptachlor epoxide | ND | | 0.13 | 1.0 |
| Methoxychlor | ND | | 1.3 | 10 |
| Endrin ketone | ND | | 0.25 | 2.0 |
| Toxaphene | ND | | 10 | 100 |
| alpha-Chlordane | ND | | 0.12 | 1.0 |
| gamma-Chlordane | ND | | 0.12 | 1.0 |
| Surrogate | % Rec | | Acceptance Limits | |
| Tetrachloro-m-xylene | 100 | | 49 - 123 | |
| DCB Decachlorobiphenyl | 84 | | 40 - 158 | |

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Lab Control Spike/ Method: 8081A
Lab Control Spike Duplicate Recovery Report - Batch: 580-18425 Preparation: 3550B

LCS Lab Sample ID: LCS 580-18425/2-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/10/2007 2054 Date Prepared: 05/08/2007 1036

.18425/2-AA Analysis Batch: 580-18625 Prep Batch: 580-18425

Units: ug/Kg

Instrument ID: SEA035 Lab File ID: ECD25335.D

Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 580-18425/3-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/10/2007 2114 Date Prepared: 05/08/2007 1036 Analysis Batch: 580-18625 Prep Batch: 580-18425

Units: ug/Kg

Instrument ID: SEA035 Lab File ID: ECD25336.D Initial Weight/Volume: 10 g

Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

| | | % Rec. | | | | | |
|------------------------|-----|-----------|----------|-----|-----------|--------------|-----------|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Aldrin | 95 | 99 | 53 - 126 | 5 | 24 | | |
| alpha-BHC | 97 | 100 | 41 - 128 | 6 | 28 | | |
| beta-BHC | 94 | 96 | 48 - 121 | 8 | 32 | | |
| delta-BHC | 51 | 50 | 22 - 153 | 9 | 36 | | |
| gamma-BHC (Lindane) | 99 | 100 | 50 - 127 | 9 | 29 | | |
| 4,4'-DDD | 91 | 96 | 44 - 141 | 2 | 41 | | |
| 4,4'-DDE | 92 | 97 | 47 - 140 | 5 | 40 | | |
| 4,4'-DDT | 92 | 95 | 34 - 159 | 0 | 47 | | |
| Dieldrin | 91 | 96 | 53 - 134 | 3 | 32 | | |
| Endosulfan I | 93 | 94 | 52 - 122 | 6 | 31 | | |
| Endosulfan II | 83 | 85 | 53 - 132 | 12 | 36 | | |
| Endosulfan sulfate | 80 | 86 | 42 - 128 | 4 | 43 | | |
| Endrin | 92 | 100 | 46 - 138 | 5 | 36 | | |
| Endrin aldehyde | 85 | 89 | 12 - 179 | 5 | 47 | | |
| Heptachlor | 100 | 100 | 50 - 130 | 3 | 31 | | |
| Heptachlor epoxide | 91 | 96 | 49 - 123 | 3 | 31 | | |
| Methoxychlor | 86 | 92 | 46 - 154 | 1 | 46 | | |
| Endrin ketone | 85 | 90 | 45 - 127 | 5 | 45 | | |
| alpha-Chlordane | 89 | 94 | 46 - 118 | 4 | 33 | | |
| gamma-Chlordane | 92 | 97 | 49 - 122 | 5 | 32 | | |
| Surrogate | | LCS % Rec | LCSD % | Rec | Accep | tance Limits | |
| Tetrachloro-m-xylene | | 98 | 101 | | 4 | 9 - 123 | |
| DCB Decachlorobiphenyl | : | 82 | 89 | | 4 | 0 - 158 | |

ECD25379.D

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Matrix Spike/ Method: 8081A Matrix Spike Duplicate Recovery Report - Batch: 580-18425 Preparation: 3550B

MS Lab Sample ID: 580-5815-2 Analysis Batch: 580-18625 Instrument ID: SEA035 Client Matrix: Solid Prep Batch: 580-18425 Lab File ID: Dilution: 500

Initial Weight/Volume: 10.8723 g Date Analyzed: 05/14/2007 1358 Final Weight/Volume: 10 mL Date Prepared: 05/08/2007 1036 Injection Volume: Column ID: **PRIMARY**

MSD Lab Sample ID: 580-5815-2 Instrument ID: SEA035 Analysis Batch: 580-18625 Client Matrix: Solid Prep Batch: 580-18425 Lab File ID: ECD25380.D Dilution: 500 Initial Weight/Volume: 10.1462 g Final Weight/Volume: 10 mL

Date Analyzed: 05/14/2007 1417 Date Prepared: 05/08/2007 1036 Injection Volume:

Column ID: **PRIMARY**

% Rec. Analyte MS **MSD** Limit **RPD RPD Limit** MS Qual MSD Qual Aldrin 0 0 53 - 126 NC 24 F F alpha-BHC 142 122 41 - 128 NC 28 F beta-BHC -85 -208 48 - 121 NC 32 J 4 4 F delta-BHC 0 0 22 - 153 NC 36 F F gamma-BHC (Lindane) 0 126 50 - 127 NC 29 F F 4,4'-DDD 0 NC 0 44 - 141 41 F 4,4'-DDE 367 135 47 - 140 NC 40 4.4'-DDT 555 310 34 - 159 NC 47 4 4 Dieldrin 234 53 - 134 170 32 J 4 -107 J 4 Endosulfan I -19100 7460 52 - 122 2 31 4 4 Endosulfan II -14900 -11700 53 - 132 6 36 4 4 Endosulfan sulfate -174 -162 42 - 128 4 43 J 4 J 4 Endrin 324 747 46 - 138 NC 36 F F F F Endrin aldehyde 0 0 12 - 179 NC 47 316 212 50 - 130 NC 31 F F Heptachlor F F Heptachlor epoxide 181 200 49 - 123 NC 31 -806 -608 46 - 154 14 46 J 4 Methoxychlor J 4 204 211 45 - 127 NC 45 F F Endrin ketone 0 0 46 - 118 NC 33 F F alpha-Chlordane 49 - 122 F F gamma-Chlordane 241 247 NC 32 MS % Rec Surrogate MSD % Rec Acceptance Limits Tetrachloro-m-xylene 127 ΧD 130 ΧD 49 - 123 ΧD 40 - 158 DCB Decachlorobiphenyl 0 ΧD 0

Instrument ID: SEA013

Initial Weight/Volume: 10 g

FA29359.D

Lab File ID:

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Method Blank - Batch: 580-18471 Method: NWTPH-Dx Preparation: 3550B

Lab Sample ID: MB 580-18471/1-AA Analysis Batch: 580-18558

Client Matrix: Solid Prep Batch: 580-18471

Units: mg/Kg Dilution: 1.0

Date Analyzed: 05/10/2007 1730

Final Weight/Volume: 10 mL Date Prepared: 05/09/2007 1211 Injection Volume:

| Analyte | Result | Qual | MDL | RL | |
|----------------------|--------|------|-------------------|----|--|
| Motor Oil (>C24-C36) | ND | | 6.0 | 50 | |
| #2 Diesel (C10-C24) | 13 | J | 6.0 | 25 | |
| Surrogate | % Rec | | Acceptance Limits | ; | |
| o-Terphenyl | 68 | | 50 - 150 | | |

Lab Control Spike/ Method: NWTPH-Dx Lab Control Spike Duplicate Recovery Report - Batch: 580-18471

Preparation: 3550B

LCS Lab Sample ID: LCS 580-18471/2-AA Analysis Batch: 580-18558 Instrument ID: SEA013 Client Matrix: Prep Batch: 580-18471 FA29360.D Solid Lab File ID:

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 10 g

Date Analyzed: Final Weight/Volume: 05/10/2007 1750 10 mL

Date Prepared: 05/09/2007 1211 Injection Volume:

LCSD Lab Sample ID: LCSD 580-18471/3-AA Analysis Batch: 580-18558 SEA013 Instrument ID:

Client Matrix: Prep Batch: 580-18471 Solid Lab File ID: FA29361.D Dilution: Units: mg/Kg 1.0 Initial Weight/Volume: 10 g

Date Analyzed: 05/10/2007 1816 Final Weight/Volume: 10 mL

Date Prepared: 05/09/2007 1211 Injection Volume:

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual 64 - 127 Motor Oil (>C24-C36) 89 95 7 17 #2 Diesel (C10-C24) 99 101 70 - 125 2 16 LCS % Rec LCSD % Rec Surrogate Acceptance Limits 92 99 50 - 150 o-Terphenyl

DATA REPORTING QUALIFIERS

Client: Washington State Dept of Ecology Job Number: 580-5815-1

| Lab Section | Qualifier | Description |
|----------------|-----------|---|
| GC/MS Semi VOA | | |
| | F | MS or MSD exceeds the control limits |
| | 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| | F | RPD of the MS and MSD exceeds the control limits |
| | Н | Sample was prepped or analyzed beyond the specified holding time |
| | X | Surrogate exceeds the control limits |
| GC Semi VOA | | |
| | В | Compound was found in the blank and sample. |
| | F | MS or MSD exceeds the control limits |
| | 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | Н | Sample was prepped or analyzed beyond the specified holding time |
| | X | Surrogate exceeds the control limits |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |

| Project Name: Haughton Rd Orchard SIC: Program: TCP | | | | | | | | | | | | | | | | | | | ìΧí | Pre | 12 25 | | | 4: | _6;_ | _ | | | П | г. | 1 15 | W D | _aala | | ~~ | | | | Da | .+n E | 200 | rulta | | dad | bre | <u>_</u> _ | . 1 | 117 | 11 | .g- | 7 | | | | | | | | | | | | | | | | | |
|--|-------------------------------|-------------|-----|--------------------------------|-------|------------------------------------|-------|-------|----------------|---|---|-------|--|---------------|---------------------------------------|---|---------------------------|-------------------|---|-------------------|------------------|--------------|-----------------|-------------------------|------------|------------------------|--|------------------------|----------------------|------------------------|---------------------------|-----------------|---------------------------------|----------------------------|-------------------------------|---------------------|---|------------|-------------------------|--------------|--|----------|------------|---|---|----------------------------------|----------------------------|-----------------------------|-------------|---|------------|---|---------------------------------------|--------------|------------------------|---|------|--|------------|--|------------------------|---------|---------------------------------------|----|-------|--------|-----|---------|
| SIC: Program: | | | | | | | | | | | | | | | | | | | | | Mor | | | INVE | estig | atio | n | | | | | | IPDE | _ | mau | OH | Date Results needed by: 5/11/07 There is a QAPP for this project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Send Results to: Brian Deeken Mail Stop: | | | | | | | | | | _ | | | | | | | | | | IVIOI | into | mg | | | | | | | _ | . 10 | JI 181 | | There is a seal of this project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampling | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | C | en | era | I C | her | nis | try | | | | | | | | | | | licr | 0 | \perp | | N | leta | als | | | | | | Org | gan | ic (| Che | ≥mi | str | у | | | | |
| Yea 200 | ır: | | | me Mn | | Field Station Identification | | | | | | 1 | Lab Sample Number | | | Matrix Code | | Source Code | | No. of Containers | Alkalinity | Conductivity | pH Turbidity | ☐ Chloride ☐ Sulfate | ☐ Fluoride | Cyanide 🔲 Total 🔲 Weak | Total Nonvolatile Solids | Total Suspended Solids | Total Nonvol Suspend | Total Dissolved Solids | ☐ % Solids ☐ % Vol Solids | DOC | BOD (5 day) | BOD, Ultimate | Oil & Grease | Nitrate-Nitrite | Total Phos. I low level | Orthophos. | Nitrate | NAIT I NAT I | Chlorophyll filters | | | □ ME □ | Total Coliforms | E-Coli 🔲 MF 🔲 MPN Wkłobejella | Antensiera Enterococcus | Materials Comment of Jane 1 | TCLP Metals | Mercury (Hg) L low level | PP Mets | | Total Total Dissol | Rec. Ived | BNA Uw/extensive TiC's | PAH's | BTEX | Pests/ PCB's DCR's antiv | OP - Pests | N-Pest | neroldes NWTPH-HCID | NWTPH-G | NWTPH-D HCID Only (Hydrocarbon ID) | | | | | |
| 04 | 6 | 1 | 4 | 17 | 3 | 70 | U | K | | | | | | | | | | 4 | 0 | 8 | 3 | I | | | | | | | | | | | floor | | | | | | | | | | | | | | | | | | | | | | | 1 | | _ | | | | | | L] | X | 1 | | |
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| | 1 | | | a granda a yesta da a da | 11 11 | | | | | | | - 1 | | | - | | - 6 % - 6 % | - A A | | ÷. | - b | | | | | 1 1 12 1 13 1 15 | 10 Jan 10 | * # · | | | 5 5 5 5 2 5 1 | 20 de 1 | | N 2 4 40. | - 3 - 4 - 3 - 4 - 3 - 4 | 2000 1200 200 | | 6 : mc. | 12.A. 11.M. 12.A. | - H (| 20 0 00 1,000 00 00 1,000 00 00 1,000 00 00 | | | 20 to 10 to | 72 W | | | | o a. | - N. S. | | 7 % 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 7 () 3 () 1 () | 2 | | | : 9 | | | 5.4.55 | | | | | | | | |
| Proje | Project Officer: Brian Delken | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phor | e n | um | ıbe | r: (| 50 | 29 |) | 4 | 5 | 4. | - 1 | ک | 90 |) | | | | | | • | Ch | air | ı ol | C | us | tod | y I | ₹ec | or | ď | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | Re | linq | uisl | ned | Ву | | | | Ŗ | gce | ive | d By | у: | | | Yr | l N | /lo | D | a | Hi | . | Mn | | | Ş | eal | I.D. | | | C | Con | ditio | n of | f Se | als | | | | | | | Co | mm | nent | S | | | | |
| Samplers: Brian Deeken | | | | | | | | - | R | , . | an | , 17 | 0 | مران | 200 | | į | Z | / 1 // | \sqrt{I} | برير | | | F | 1 7 | - 10 | 5 | 0 | -1 | | T: | 1 2 | <u>-</u> | | | | | | | | 6 | ران تحق |) | | | | · | | - 1 | 18 | 90 | | | IJa | <u> </u> | Jon | a o | AC. | A BK | | | | | | | | | |
| | | | | | | | | | | | Brian Deep | | | | | | | + | | 7 | W | <u>W</u> | 7 | | | + | 1 | | | | 1 | | | | + | | | | | | | | <u>.,,</u> | | | | | | | | • | | <i>p</i> — | Market . | | | | 7 - 60 | 9~ | , - | ,,- | | | | | | | |
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| Date | | | | | | | | - | | | | | | | _ | - | | Co | ımc | ner | its: | | 5 | an | u.p | le, | 5 | | _5 | e | 4: | 4 | | ΖÌ | 9 | [| ~e | | E | X | | | | | | | | | | | <u>_</u> . | | | | | | | | | | | | | | | | | |
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Laboratory Analyses Required

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Washington State Dept of Ecology Job Number: 580-5815-1

Login Number: 5815

| Question | T/F/NA | Comment |
|--|--------|-----------------------------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | False | Fed Ex delayClient notified |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | 1-Storage jar rcvd broken |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | NA | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |